

What is claimed is:

1. A battery, comprising:
a cathode;
an anode; and
an electrolyte, wherein:

the anode has an anode collector and an anode active material layer which is provided on the anode collector and which is alloyed with the anode collector on at least a part of interface between the anode active material layer and the anode collector, and

the electrolyte contains an electrolyte solution containing cyclic carbonic acid ester having unsaturated bonds and an electrolytic salt.

2. A battery, comprising:
a cathode;
an anode; and
an electrolyte, wherein:

the anode has an anode collector and an anode active material layer which is formed on the anode collector by at least one method from the group consisting of vapor-phase method, liquid phase method and sinter method, and

the electrolyte contains an electrolyte solution containing cyclic carbonic acid ester having unsaturated bonds and an electrolytic salt.

3. A battery according to claim 2, wherein the anode active material

layer is alloyed with the anode collector on at least a part of interface between the anode active material layer and the anode collector.

4. A battery according to claim 2, wherein the anode active material layer includes at least one kind from the group consisting of a simple substance and compounds of silicon (Si) or tin (Sn).

5. A battery according to claim 2, wherein the electrolyte solution contains at least one of vinylethylene carbonate and vinylene carbonate.

6. A battery according to claim 2, wherein a content of the cyclic carbonic acid ester in the electrolyte solution is from 0.1 wt% to 30 wt%.

7. A battery according to claim 2, wherein the electrolyte further includes a holding body.

8. A battery according to claim 2, wherein film exterior members which house the cathode, the anode, and the electrolyte are further provided.

9. A battery according to claim 2, wherein the cathode contains a metal complex oxide including lithium.